

HOWTO: LAS UI for CDAT

This step-by-step guide details the procedure for installing the LAS user interface that connects to an existing CDAT backend.

1. From website <ftp://ferret.pmel.noaa.gov/pub/las> download files:

ftp://ferret.pmel.noaa.gov/pub/las/las_6_5_2_1.tar.gz

ftp://ferret.pmel.noaa.gov/pub/las/williams_ui.tar.gz

<ftp://ferret.pmel.noaa.gov/pub/las/LPS.tar.gz>

Please note that this guide was tested with 6.5.2.1 version of LAS, the latest version at the time.

2. Unzip files:

```
gunzip las_6_5_2_1.tar.gz  
gunzip williams_ui.tar.gz  
gunzip LPS.tar.gz
```

3. Untar files. File williams_ui.tar is a sample archive of an LAS installation, and contains several files you will need for your own installation. File las_6_5_2_1.tar is the latest version of the software and will be your own LAS installation. Extract the contents of las_6_5_2_1.tar to a directory named "las", first untar williams_ui.tar and rename the directory before untarring the las_6_5_2_1.tar file.

```
tar -xf williams_ui.tar  
mv las las-williams  
tar -xf las_6_5_2_1.tar  
tar -xf LPS.tar
```

4. Run the configure script as superuser:

```
su  
cd las  
.configure
```

5. Copy files from the sample LAS installation:

```
cd ..  
cp las-williams/server/ui.xml las/server  
cp las-williams/server/options.xml las/server  
cp las-williams/server/operations_old.xml las/server  
cp las-williams/server/operations_new.xml las/server  
cp las-williams/las_servlet/src/gov/noaa/pmel/tmap/XmlRequester.java las/las_servlet/src/gov
```

6. Build and deploy las.war:

```
cd las/las_servlet  
ant clean  
ant dist  
cp las.war jakarta/webapps
```

7. Build and deploy LPS.war.

First, go to the Product Server directory:

```
cd ../../LPS
```

Edit configuration file WebContent/lasproduct/lasproduct.xml:

```
vi WebContent/lasproduct/lasproduct.xml
```

Change the home attribute in lasproduct tag to be port 8080 of your machine:

```
<lasproduct home="http://mymachine.llnl.gov:8080/">
```

Change the las_root attribute to the path of your LAS directory:

```
las_root = "/home/username/las"
```

Change the CDAT server URL to the location of the SOAP server:

```
<server name="cdat" url="http://titania.llnl.gov:9001">
```

Edit file build.xml:

```
vi build.xml
```

Change the tomcat location to the tomcat directory in your LAS installation:

```
<property name="jakarta.home" value="/home/username/las/las_servlet/jakarta"/>
```

Build and deploy the .war file:

```
ant clean  
ant dist  
cp LPS.war ../las/las_servlet/jakarta/webapps
```

8. Run genLas.

First, go to the las/server directory:

```
cd ../las/server
```

Edit file las.xml:

```
vi las.xml
```

change the operations url to path LPS/lasproduct on port 8080:

```
<operations url="http://mymachine.llnl.gov:8080/LPS/lasproduct">
```

Copy old operations file:

```
cp operations_old.xml operations.xml
```

Run lasGen:

```
../xml/perl/genLas.pl las.xml
```

Copy new operations file:

```
cp operations_new.xml operations.xml
```

9. Start LAS:

```
cd ..  
./startserver.sh
```

You should now be able to go to <http://localhost:8080/las/servlets/datasets> and browse the LAS user interface.